Center for Regulatory Services, Inc.

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April 22, 2015

CBIC Control **N**umber
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U.S. Environmental Protection Agency – East
Attn: TSCA Section 8(e)
Room 6428
1201 Constitution Avenue, NW
Washington, DC 20004

SUBJECT: TSCA 8(e) Notification
CAS Registry No. 716-79-0

The enclosed aquatic tox results that came the attention of JSR Micro, Inc., April 17, 2015, for the subject substance that is identified as being on the Inventory.

The results of the aquatic tox testing of the substance is only identified as **NIPBIM**.

96-hour LC50 Acute Toxicity Study in Fish (*Oryzias latipes*) - 10-100 mg/L
48-hour EC50 Acute Immobilization in *Daphnia magna* – 1.0-10 mg/L
72-hour EC50 Algal Growth Inhibition in *Pseudokirchneriella subcapitata* - 10-100 mg/L

Please feel free to contact the undersigned if you have any questions or if we can provide additional information.

Sincerely,

William A. Olson, Ph.D.
Agent
JSR Micro, Inc.

WAO:gbt
JSR-8E-NIPBIM

Enclosures
3 Aquatic Tox Reports (6 pages)

ec: Y. Ueda/ T. Ozag, JSR (w/o Enclosures)

CERI

Receipt number	662-14-E-6911
Study number	96911

March 23, 2015

TEST REPORT

- A 96-hour Acute Toxicity Study in Fish -

Chemicals Evaluation and Research Institute,
Japan, Kurume
3-2-7, Miyanojin, Kurume-shi,
Fukuoka 839-0801, Japan

1. Test item: NIPBIM
2. Sponsor: JSR Corporation
3. Objective: To determine acute toxicity of the test item to Medaka
4. Dates
   - Exposure initiation: March 13, 2015
   - Exposure termination: March 17, 2015
5. Materials and methods

Test organism: Medaka (*Oryzias latipes*)
(Total length: 2.2-2.6 cm Body weight: 0.093-0.18 g)

Exposure conditions

- Exposure duration: 96 hours
- Test type: Static regime
- Test concentration: 100, 10, 1.0 mg/L as nominal concentration, and a control
- Preparation of test solution: The test item and dilution water were mixed to prepare each nominal concentration and stirred for 48 hours under shading. Then the suspension was filtered with a glass fiber filter (GB-140, 0.4 μm pore size, Toyo Roshi) by suction to prepare the test solution. The test item was treated under yellow fluorescent light.

Environmental conditions

- Dilution water: Dechlorinated tap water
- Temperature: 24±1°C
- Number of organisms: 7 fish/test level
- Volume of test solution: Approximately 2.8 L/test level
- Test vessel: Glass tank
- Lighting condition: Shading condition (It was conducted under the yellow fluorescent light at the preparation of test item, handing of test organism, measurement of water quality and observation of test organisms, and under the room light at filtering the test solutions.)
- Feeding: No feeding
- Aeration: Conducted gently

Observation and measurements

- Observation of test organisms: Mortality was observed under the yellow fluorescent light at 24, 48, 72 and 96 hours after exposure.
- Size of organism: Test organisms in the control were used for measuring total length and body weight after the end of exposure.
- Water quality: Dissolved oxygen concentration and pH were measured of the control at the start and end of exposure. These were measured of the 100 mg/L at the start exposure and the time that mortality of all test organisms was confirmed.

Appearance of test solution: Colorless and clear (at the start of exposure: visual)

6. Result

96-hour median lethal concentration (96hr LC_{50}):

10-100 mg/L (nominal concentration)

Table Result of cumulative mortality and quality of test solution

Test level (mg/L)	Cumulative mortality (%)				Dissolved oxygen concentration (mg/L)		pH	
	24 hours	48 hours	72 hours	96 hours	At the start	At the end	At the start	At the end
Control	0	0	0	0	8.2	8.1	7.9	7.9
1.0	0	0	0	0				
10	0	0	0	0				
100	0	14	100	100	8.2	8.2[a]	8.0	7.8[a]

a It indicates the measured value at the time that mortality of all organisms was confirmed. (72 hours after the start of exposure)

CERI

Receipt number	662-14-E-6910
Study number	96910

March 23, 2015

TEST REPORT

- A 48-hour Acute Immobilization Study in *Daphnia magna* -

Chemicals Evaluation and Research Institute,
Japan, Kurume
3-2-7, Miyanojin, Kurume-shi,
Fukuoka 839-0801, Japan

1. Test item — NIPBIM
2. Sponsor — JSR Corporation
3. Objective — To determine acute effects of the test item to daphnids
4. Dates
   - Exposure initiation — March 18, 2015
   - Exposure termination — March 20, 2015
5. Materials and methods
   - Test organism — *Daphnia magna* (Clone A)
   - Exposure conditions
     - Exposure duration: — 48 hours
     - Test type: — Static regime
     - Test concentration: — 100, 10, 1.0 mg/L as nominal concentration, and a control
     - Preparation of test solution: — The test item and dilution water were mixed to prepare each nominal concentration and stirred for 48 hours under shading. Then the suspension was filtered with a glass fiber filter (GB-140, 0.4 μm pore size, Toyo Roshi) by suction to prepare the test solution. The test item was treated under yellow fluorescent light.
   - Environmental conditions
     - Dilution water: — Dechlorinated tap water
     - Temperature: — 20±1°C
     - Number of organisms: — 20 daphnids/test level (5 daphnids/test vessel, 4 replicates)
     - Volume of test solution: — 400 mL/test level (100 mL/test vessel, 4 replicates)
     - Test vessel: — 100 mL glass beaker
     - Lighting condition: — Shading condition
       It was conducted under the yellow fluorescent light at the preparation of test solution, handing of test organism, measurement of water quality and observation of test organisms, and under the room light at filtering the test solutions.
     - Feeding: — No feeding
     - Aeration: — No aeration
   - Observation and measurements
     - Observation of organisms: — Immobility was observed at 24 and 48 hours after exposure. Daphnids were considered immobile if they were not able to swim within 15 seconds after gentle agitation of the test vessel.
     - Water quality: — Dissolved oxygen concentration and pH were measured of 100 mg/L and the control at the start and end of exposure.
     - Appearance of test solution: — Colorless and clear (at the start of exposure: visual)

6. Result

48-hour median effective concentration (48hr EC_{50}):

1.0-10 mg/L (nominal concentration)

Table Result of immobility and quality of test solution

Test level (mg/L)	Immobility (%)		Dissolved oxygen concentration (mg/L)		pH	
	24 hours	48 hours	At the start	At the end	At the start	At the end
Control	0	0	8.8	8.8	7.6	7.6
1.0	0	0				
10	20	90				
100	100	100	8.9	8.8	7.6	7.8

CERI

Receipt number	662-14-E-6909
Study number	96909

March 30, 2015

TEST REPORT

— Algal Growth Inhibition Study in *Pseudokirchneriella subcapitata* —

Chemicals Evaluation and Research Institute,
Japan, Kurume
3-2-7, Miyanojin, Kurume-shi,
Fukuoka 839-0801, Japan

1. Test item — NIPBIM
2. Sponsor — JSR Corporation
3. Objective — To determine the effects of the test item on growth of algae
4. Dates — Exposure initiation March 16, 2015; Exposure termination March 19, 2015

5. Materials and methods

Test organism	*Pseudokirchneriella subcapitata*
Exposure conditions	
Exposure duration:	72 hours
Type test:	Incubation with rotary shaking (approximately 100 rpm)
Test concentration:	100, 10, 1.0 mg/L as nominal concentration and a control
Preparation of test solution:	The test item and medium were mixed to prepare each nominal concentration and stirred for 48 hours under shading. Then the suspension was filtered with a glass fiber filter (GB-140, 0.4 μm pore size, Toyo Roshi) by suction to prepare the test solution. The test item was treated under yellow fluorescent light.
Environmental conditions	
Medium:	OECD medium
Temperature:	21-24°C (not varied more than ± 2°C)
Initial cell concentration:	10^4 cells/mL
Volume of test solution:	300 mL/test level (100 mL/ test vessel × 3 replicates)
Test vessel:	Sterilized 300 mL Erlenmeyer flask with gas-permeable silicon rubber plug
Lighting condition:	Nominal 90 $\mu mol \cdot m^{-2} \cdot s^{-1}$ (within ± 20% of nominal, within ± 15% from the average light intensity) Continuous illumination provided by fluorescent lights with wavelength range of 400-700 nm
Measurements	
Biomass:	Cell concentration was measured.
Condition of test solution:	pH of 100 mg/L and control were measured at the start and end of exposure.
Appearance of test solution:	Clear and colorless (at the start of exposure: visual)

6. Result

72-hour median effective concentration (72hr E_rC_{50}) [Based on growth rate (0-3d)]
: 10-100 mg/L (nominal concentration)

No Observed Effect Concentration (NOEC) : <1.0 mg/L (nominal concentration)

Table Result of growth inhibition rate and quality of test solution

Test level (mg/L)	Growth inhibition rate (%) (Growth rate 0-3d)	pH	
		At the start	At the end
Control	-	7.8	7.8
1.0	6.3		
10	45		
100	62	7.8	7.8

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